

START

0007465

February 13, 1990

Meeting Minutes Transmittal/Approval

Unit Managers Meeting: 300-FF-1 Operable Unit

450 Hills Street, Room 47, Richland, WA

January 25, 1990

From/ Appvl. Robert K Stewart Date: 2/19/90
Robert K. Stewart, 300-FF-1 Unit Manager, DOE-RL

Appvl.: David R. Einar Date: 15 Feb 90
David R. Einar, 300-FF-1 Unit Manager, EPA

Appvl.: Larry Goldstein Date: FEB 14, 1990
Larry Goldstein, 300-FF-1 Unit Manager, WA Department of Ecology

<p>To: Doug Sherwood, EPA Ward Staubitz, USGS Mike Thompson, DOE-RL (A6-95) Chuck Cline, WDOE Jack Waite, WHC (H4-52) Tom Wintczak, WHC (H4-17) Mel Adams, WHC (H4-55) Bill Wright, Golder Roy Gephart, PNL (K6-97) Brian Sprouse, WHC (H4-51) Diane Clark, DOE-RL (A5-55) Paul Day, EPA Bill Price, WHC (S0-03) Donna Lacombe, PRC Larry Hulstrom, WHC (L4-92) Don Kane, Battelle EMO (K1-74) Jerry Chiaramonte, SWEC/IT (A4-35) ADMINISTRATIVE RECORD (300-FF-1) [Care of Susan Wray, WHC (H4-51C)]</p>	<p>cc. Ronald D. Izatt (A6-95) Director, DOE-RL, ERD Ronald E. Gerton (A6-80) Director, DOE-RL, WMD Roger D. Freeberg (A6-95) Chief, Rstr. Br., DOE-RL/ERD Steven H. Wisness (A6-95) Tri-Party Agreement Proj. Mgr. Richard D. Wojtasek (H4-17) Program Mgr., WHC</p>
--	---

- Meeting minutes are attached. Minutes are comprised of the following:
- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
 - Attachment #2 - Stated Schedule;
 - Attachment #3 - Agenda for the Meeting;
 - Attachment #4 - Attendance List;
 - Attachment #5 - Operable Unit Commitments/Agreements Status List;
 - Attachment #6 - 300-FF-1 Work Progress; and
 - Attachment #7 - Data Availability for RI Tasks
 - Attachment #8 - Conclusions and Recommendations from the Draft Data Compilation Task Report



Attachment #1

**Meeting Summary and Summary of Commitments and Agreements
300-FF-1 Operable Unit Managers Meeting
450 Hills Street, Room 47
January 25, 1990**

1. Status of action items from the previous UM meeting was discussed. (See Attachment #5).
2. Work plan status is given in Attachment #6.
3. Progress on RI activities is summarized in Attachment #6. Aerial photos obtained from EPA show potential new candidate waste sites.
4. A statused schedule is given in Attachment #2. At the next UM Meeting in February, a revised schedule will be shown reflecting the deferral of selected activities as a result of the budget realignments.
5. A summary of data availability for tasks performed in the RI is given in Attachment #7.

Action # 3FF1.26: WHC is to compile the surface radiation survey results (location map, table of lab data and hotspot descriptions) as a Miscellaneous Report (MR) and issue to DOE, EPA and Ecology. Action: Larry Hulstrom

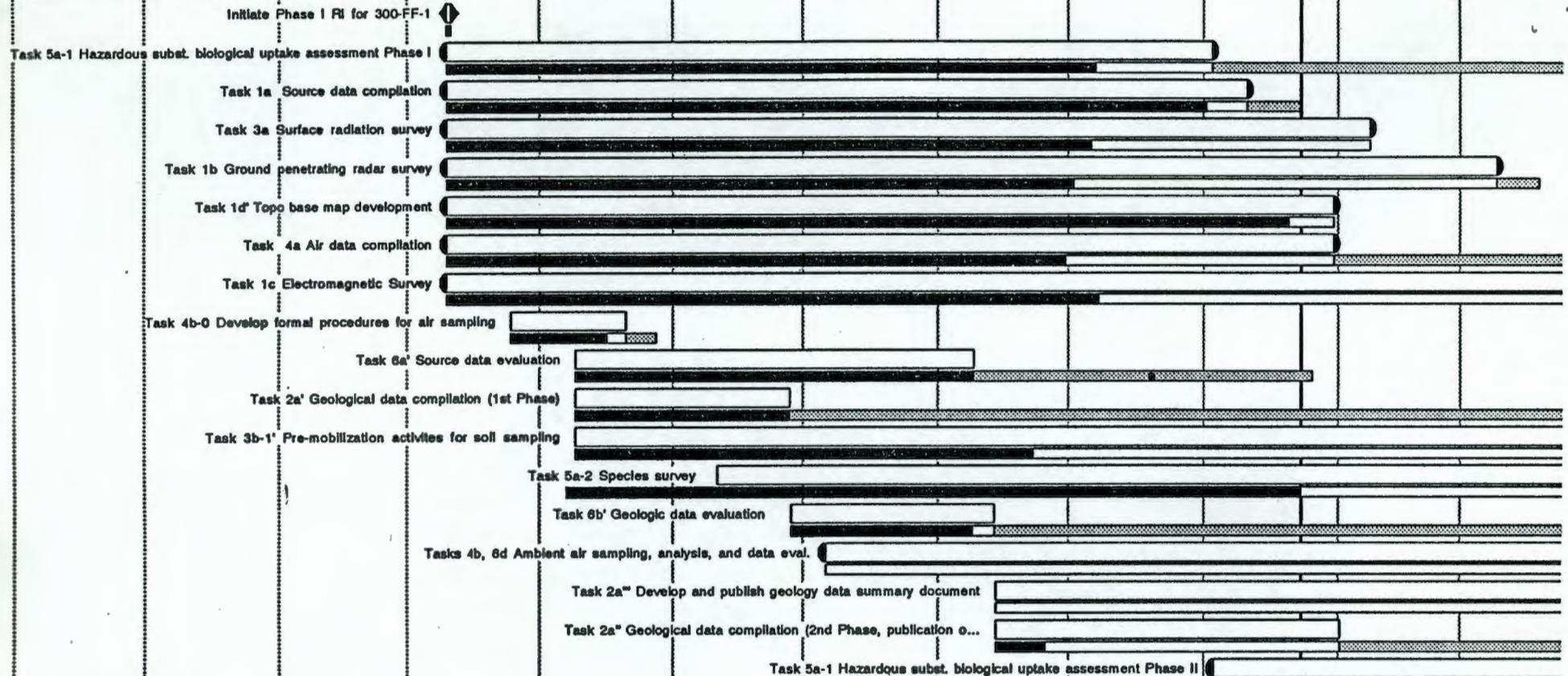
6. The issue of low level surface radiation findings (aluminum shavings) in 300-FF-2 was discussed. The issue needs to be discussed internally to decide what further steps need be taken, if any, for restricting access, expanding the survey, and/or accelerating the site investigations.

Action # 3FF1.27: Internal meetings will be held between RL and contractor groups to discuss further actions regarding surface radiation findings outside of the 300-FF-1 OU. Action: Bob Stewart

7. Conclusions and recommendations from the draft data compilation task report were presented by Larry Hulstrom and are shown in Attachment #8. Alternatives to the tracer gas survey of the retired radioactive sewer were discussed. WHC recommends dropping the tracer gas survey in favor in using the "in-pipe" techniques, electromagnetic induction (EMI) and/or a remote television scan. EPA/Ecology agreed that the approach should be changed.

Action # 3FF1.28: WHC is to revise the work plan to delete the tracer gas pipeline survey and replace it with EMI and/or TV scan. Action: Larry Hulstrom

4/1/89 5/1/89 6/1/89 7/1/89 8/1/89 9/1/89 10/1/89 11/1/89 12/1/89 1/1/90 2/1/90 3/1/90



**300-FF-1 RI Phase I Task Timeline
01-23-89 Pacific Northwest Laboratory**

Legend

Planned duration

Float time

Task title

Actual duration (% complete shown as black)

Task 3b Soil sampling and analy

Task

Task

Task 6c Soil data evaluati

Task

Attachment #3

UNIT MANAGER'S MEETING AGENDA
300-FF-1 OU
January 25, 1990
11:00 - 12:00 AM
450 Hills St./Rm 47

Introduction:

Status:

Action Items

Work Plan

Remedial Investigation

Schedule

Issues:

Changes to Work Plan/Schedules

Other Topics:

Source Data Compilation task results

Agreements and Commitments

Presenter - Larry Hulstrom

90117810736

Attachment #4

Attendance List
300-FF-1 Unit Managers Meeting
January 25, 1990

Name	Organization	Phone
Dave Einan	EPA	509-376-3883
Bob Stewart	DOE-RL-ERD	509-376-6192
Jerry Chiaramonte	SWEC/IT	509-376-7829
Dave Myers	SWEC/IT	509-376-0969
Chuck Cline	WDOE	206-438-7556
Larry Hulstrom	WHC	509-376-4034
Bill Wright	GAI	206-883-0777
Ron Smith	PNL	509-376-5831
Wayne Johnson	WHC	509-376-1721
George Last	PNL	509-376-5516
Jim Patterson	WHC	509-376-0568
Roger Presentin	DOE-RL	509-376-5983
Donna Lacombe	PRC	206-624-2692
John Fruchter	PNL	509-376-3937
Mike Thompson	DOE-RL	509-376-6421
Doug Hildebrand	DOE-RL	509-376-7287
Diane Clark	DOE-RL	509-376-7557
Ronald Dieffenbacher	WHC	509-376-8383

90117810737

Attachment #5

Commitments/Agreements Status List

300-FF-1 Operable Unit

January 25, 1990

Item No.	Action	Status
3FF1.7	<ol style="list-style-type: none">1. PNL (George Last) will coordinate with Golder (Bill Wright) to find original databases relating to 4 areas of concern.2. If information is not available, additional text will be added to the work plan to define how additional data will be obtained.	Closed Footnotes added to tables of work plan released on 11/30. No additional comments received from EPA/Ecology
3FF1.8	WHC will revise the work plan to include the use of XRF for metals screening. The changes will be provided for EPA/Ecology review by August 30.	Closed Included in work plan released 11/30. No add'l comments received.
3FF1.12	DOE (Bob Stewart) and WHC (Tom Wintczak) will investigate approaches for implementing the proposed analytical strategy in the work plan.	Closed Included in work plan released 11/30. No add'l comments received.
3FF1.14	EPA/Ecology are to be provided copies of existing Event Fact Sheets and added to the distribution list of any Event Fact Sheets which pertain to CERCLA/RCRA site investigations.	Closed Copies provided on 10/24. Event fact sheets no longer used.
3FF1.18	WHC is to develop a specific plan for near surface sampling of the ash pits, backwash pond and sanitary sewer system. The plan is to be incorporated into the Work Plan.	Closed Included in revised work plan released 11/30. No additional comments received.

90117810738

- 9011/810739
- 3FF1.20 DOE (R.K. Stewart/D. Clark) will coordinate with DOE community relations to address the issue of area postings and public access restrictions. Closed
See Action Item #3FF1.27
- 3FF1.21 1. Procedures now being developed for conducting surface radiation surveys and removal actions will be provided to EPA and Ecology when available. Open
Procedure in draft stage, undergoing internal review.
2. WHC is to provide a target date for issuance of the surface radiation survey procedure for DOE and regulatory agency review. Action: Wayne Johnson Closed
Will be issued on March 1, 1990
- 3FF1.22 The WHC Environmental Monitoring Group is to meet with PNL to develop a plan for sharing the asparagus monitoring data. Wayne Johnson has the action to coordinate this effort. Closed
Integration meeting held on 1/18/90.
- 3FF1.24 A presentation on the plans for the soil washing demonstration will be given at the next General Topics UM Meeting in January. The presentation will also include a presentation on In-Situ Vitrification. Action: Wayne Johnson Closed
Presentation made on 1/24/90
- 3FF1.25 The Work Plan will be modified to show sampling at the head end of the 307 Trench. WHC is to investigate what additional actions need to be taken to determine specific locations for sampling. Action: Wayne Johnson Closed
Work plan was modified. Geophysical methods will be utilized to help better define trench locations.

January 25, 1990

0 Work Plan

- Mr. D. Einan provided verbal notification on January 2, 1990 that there would be no additional comments forthcoming on the work plan prior to public review.
- A copy of Table 1 from the QAPP was provided to DOE-RL and EPA on January 18.
- The formal comment dispositions to the November 2, 1989 letter from D. Einan to R. Stewart are provided in a letter to DOE-RL which is in final approval as of 1/25/90.
- Additional page changes to address typos, pagination errors, incorporation of the revised DMP, and QAPP and minor changes to the HSP will be included in the next revision of the work plan to be prepared for public review.

0 RI Activities

TASK SPECIFIC

- Task 1a - The revised source data compilation draft report is being readied for publication by PNL as a Minor Task Completion Report on about February 15, 1990. Preliminary conclusions are presented on the attached. Attempts are being made to obtain any aerial photographs of the 300 Area that may be available to assist in locating possible waste sites.
- Task 1b - Geodetic survey and GPR of Burial Grounds 4 & 5. Further work has been put on hold.
- Task 1c - GPR and EMI of the inactive process sewer. Further work, including analysis of collected data, has been put on hold.
- Task 1d - Topographic base map development is underway through Kaiser Engineers Hanford. The "fly-by" has been completed and a draft map should be available to WHC by March 1, 1990.
- Task 2a - Geologic Data Compilation. Further work has been put on hold.
- Task 3a - Geodetic survey of the surface radiation hotspots has been initiated. The cleanup of hotspot (R32) has been further delayed due to concerns from WHC Industrial Safety and Fire Protection and Health Physics organizations. A meeting was held on January 4, 1990 and a plan of action was agreed upon. Cleanup will be initiated after the HSP is approved by all 3 WHC organizations, and a Pre-Job Safety Plan and Radiation Work Permit are written and approved.
- Task 3a - A draft EII (2.3) entitled, "Radiation Surveys to Support Environmental Work on the Hanford Site" has been written and is being reviewed by WHC.
- Task 3b - Mobilization for drilling. Further work has been placed on hold.

January 25, 1990

0 RI Activities (continued)

- Task 4a - A procedure for Air Monitoring has been drafted by PNL and was submitted for WHC review. Further work has been placed on hold.
- Task 5a - Asparagus sampling; The Critique Report has been completed and was sent to Correspondence Control on January 19 for distribution. The proposed Spring, 1990 Sampling Plan for the Asparagus Uptake Assessment has been completed and is in the process of being transmitted to DOE-RL. The December bird survey portion of the Species Survey was completed. Further work has been temporarily placed on hold until budgets are resolved.

0 Schedule

See Attachments

9011/810741

Attachment #7

DATA AVAILABILITY FOR TASKS ASSOCIATED WITH THE
IMPLEMENTATION OF THE 300-FF-1 OPERABLE UNIT
PHASE I REMEDIAL INVESTIGATION

01/25/90

TASK 1 - SOURCE INVESTIGATION

- | | |
|---------------------------------------|-------------------------------|
| 1a - Source Data Compilation | Ready for publication 2/15/90 |
| 1d - Topographic Base Map Development | Draft available to WHC 3/1/90 |

TASK 3 - SOIL INVESTIGATION -

- | | |
|-------------------------------|--|
| 3a - Surface Radiation Survey | Location map of hotspots, table of initial laboratory data, and description of hotspots has been completed |
|-------------------------------|--|

TASK 5 - TERRESTRIAL BIOLOGICAL INVESTIGATION -

- | | |
|----------------------------------|---|
| 5a - Biological Survey | December Bird survey completed, data not yet available |
| 5b - Asparagus Sampling Analysis | Initial sampling completed, data was provided to DOE-RL, and regulators |

9011/810742

Attachment #8

CONCLUSIONS AND RECOMMENDATIONS
from
THE DRAFT DATA COMPILATION TASK REPORT FOR THE SOURCE INVESTIGATION
OF THE 300-FF-1 OPERABLE UNIT PHASE 1 REMEDIAL INVESTIGATION

1. IDENTIFICATION OF THE SOURCE OF THE URANIUM PLUME IN GROUNDWATER BENEATH
THE 300-FF-1 OPERABLE UNIT

Conclusions:

- Existence of a uranium plume in the groundwater beneath the 300 area is documented in Dennison et al. (1989).
- Potential sources are the North and South Process Ponds, the active Process trenches, and the 307 Trenches.
- The most concentrated portion appears to be near the 307 trenches.
- Additional characterization is required to determine areal extent and depth, distribution of the uranium, and presence of water.
- In addition the isotopic composition of the uranium should be determined.

Recommendation:

- Characterization of the 307 Trenches is described in Section 5.3.3.2.2.
- Additional data can be obtained in Phase 2 of the RI, if required.

2. SEDIMENT ANALYSES

Conclusions:

- Further investigation of the North and South Process Ponds should include sampling of near-surface and dike sediments to better define the horizontal extent of contamination.

Recommendation:

- Some indication of horizontal extent of contamination will be obtained in the present sampling program. Additional sampling of near-surface and dike sediments can be accomplished during Phase 2 of the RI, if required.

CONCLUSIONS AND RECOMMENDATIONS
from
THE DRAFT DATA COMPILATION TASK REPORT FOR THE SOURCE INVESTIGATION
OF THE 300-FF-1 OPERABLE UNIT PHASE 1 REMEDIAL INVESTIGATION

3. PHOSPHORIC ACID SPILL

Conclusions:

- This 1986 phosphoric acid/chromic acid spill involved only 30 gallons of waste.
- The spill was remediated shortly after it occurred, however no positive proof of the cleanup has been found.

Recommendation:

- Further investigation to locate records, including the exact location of the spill should be performed.
- A limited surface grab sampling program at the location of the spill could be implemented during Phase 2 of the RI, if required.

4. ALTERNATIVES TO THE TRACER GAS SURVEY OF THE RETIRED RADIOACTIVE LIQUID WASTE SEWER

Conclusions:

- The original tracer gas concept is not recommended for two reasons.
 - A) Residual radioactive contamination might be forced into the surrounding soil. This leakage could occur anywhere along the sewer line since there is no way to isolate the 300-FF-1 portion of the line.
 - B) There will be a high probability of false negatives caused by the deep (up to 18 ft) burial of the pipes. There is a good likelihood that the tracer gas would not reach the wells put in to sample it.

Recommendation:

- Remove the tracer gas method from the work plan. Replace the discussion with a description of two possible "in-pipe" alternative techniques.
 - A) Electromagnetic induction technique (eddy-current inspection) where source and receiver units are enclosed in a remote probe that is fed into the pipe. This reduces signal interference, reduces data interpretation, and works well in murky waters.
 - B) Remote television camera inspection technique. If viewing conditions are good, this method provides the most unambiguous evidence of leaks.

Both techniques require access to the sewer pipe, so the practicality of this access will have to be determined.